BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Estimate for Improvements to road and drain at Puttananjappa layout 5th main I/F of shiva temple in ward no 9 In vidyaranyapura sub Division.

			Estimate Cost Rs.						1500000.00
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 141 / Item No. 19.1 / PWD SR 2014-16**	Cum							
	For drain		2	84.00	1.10	1.00	184.80		
	For Road Work		1	84.00	6.50	0.20	109.20		
	Culvert		1	5.00	2.00	1.20	12.00		
							306.00	83.16	**25447.00**
	Basic Rate	77.00							
	Area Weightage @8%	6.16							
	Total	**83.16**							
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.3/ PWD SR 2015-16**	Cum							
	For drain		2	84.00	1.00	0.15	25.20		
	For Cds		1	5.00	1.80	0.15	1.35		
							26.55	5070.60	**134624.00**
	Basic Rate	4695.00							
	Area Weightage @ 8%	375.60							
	Total	**5070.60**							
3	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 **Page No. 23 / Item No. 5.9 / PWD SR 2015-16**	Cum							
	For Culverts		2	5.00	0.60	0.90	5.40		
							5.40	4905.36	**26489.00**
	Basic Rate	4542.00							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Area Weightage @ 8%	363.36							
	Total	**4905.36**							
4	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix 1:2:4 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12/ Item No. 4.6 / PWD SR 2015-16**								
	Coping		1	5.00	1.80	0.10	3.60		
							3.60	5490.72	**19767.00**
	Basic Rate	5084.00							
	Area Weightage @ 8%	406.72							
	Total	**5490.72**							
5	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls** at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31 / PWD SR 2015-16**	Sqm							
	Drain side wall		6	84.00		0.60	302.40		
	Covering slab		2	84.00	0.60		100.80		
	Covering slab sides		2	84.00		0.15	25.20		
	For CD		1	5.00	0.60		3.00		
	sides		2	5.00		0.23	2.30		
			2	1.80		0.23	0.83		
							434.53	306.72	**133278.00**
	Basic Rate	284.00							
	Area Weightage @8%	22.72							
	Total	**306.72**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
6	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal**, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, **Page No. 13 / Item No. 4.11 / PWD SR 2015-16**	Cum							
	Drain bed		2	84.00	0.90	0.15	22.68		
	drain side walls		4	84.00	0.15	0.60	30.24		
	Drain coping		2	84.00	0.90	0.10	15.12		
	CD deck slab		1	5.00	1.80	0.23	2.07		
							70.11	6198.12	**434550.00**
	Basic Rate	5739.00							
	Area Weightage @8%	459.12							
	Total	**6198.12**							
7	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **TMT Bars FE 500 Page No. 17 / Item No. 4.46.2 / PWD SR 2015-16**	Tonne							
			0.07	70.11			4.91		
							4.91	69805.80	**342586.00**
	Basic Rate	64635.00							
	Area Weightage @8%	5170.80							
	Total	**69805.80**							
8	KSRRB 300-47: scarifying kankar/gravel/metal crust upto 150mm thick with pick axes and disposal of stuff within a lead of 100 meters including cost of all labour charges complete as per specifications MORTH chapter 3, **No. 146 / Item No. 19.53 / PWD SR 2015-16**	Sqm							
			1	84.00	6.50		546.00		
							546.00	25.92	**14152.00**
	Basic Rate	24.00							
	Area Weightage @ 8%	1.92							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Total	**25.92**							
9	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to **wet mix macadam** specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per MORTH specification NO. 406, **Page No. 157 / Item No. 20.18 / PWD SR 2015-16**	Cum							
			1	84.00	6.50	0.20	109.20		
							109.20	1713.96	**187164.00**
	Basic Rate	1587.00							
	Area Weightage @ 8%	126.96							
	Total	**1713.96**							
10	Providing and applying primer coat with S.S. **bitumen emulsion** on prepared surface of granular base such as WBM, WMM including cleaning of road surface and spraying primer at the rate of 0.60 Kg / sqm using mechnical means complete as per specifications. MORTH specification NO. 502, **Page No. 160 / Item No. 21.6 / PWD SR 2015-16**	Sqm							
			1	84.00	6.50		546.00		
							546.00	32.40	**17690.00**
	Basic Rate	30.00							
	Area Weightage @ 8%	2.40							
	Total	**32.40**							
11	KSRRB M500-18: Providing and laying **semi dense bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects as per specifications. **with 100-120 TPH capacityH.M.P with sensor paver Gr-II (25 mm to 30 mm) with 5 % VG-30 Bitumen Page No. 162 / Item No. 21.20.2 / PWD SR 2015-16**	Cum							
			1	84.00	6.50	0.025	13.65		
							13.65	8469.36	**115607.00**
	Basic Rate	7842.00							
	Area Weightage @ 8%	627.36							
	Total	**8469.36**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
12	Lead for Disposal of Debris shall be payable at Carage rates by Mechanical means inlcuding loading and unloading. **From 0.00 to 11.90 Km (PWD SR 2015-16 Rates P No 139)**	Cum							
			Qty. Vide Item No. 1				**306.00**	106.34	**32539.00**
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 TX 11.90Km X 2.0/km= 30.46	30.46							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
		98.46							
	Area Weightage @ 8%	7.88							
	Total	**106.34**							
13	Sub Total								**1483893.00**
14	Third Party Inspection Charges @ 1%								**14839.00**
15	Miscellaneous and unforeseen charges	L/S							**1268.00**
								Total	**1500000.00**

(Rupees Fifteen Lakhs Only)

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2015-16.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
8/12/15

Administrative Approval
Accorded For Rs. 1500000/-
Head of A/c P-1771
CER NO: 81 Dt: 14.12.2015

TA CE (SWM)

TECHNICAL SANCTION
Accorded For Rs. 1500000/-
Head of A/c P-1771
Div. Ref. No. 238 Date 14/12/15
AE
EE(BTP) 15/12

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE, BYATARAYANAPURA DIVISION

Lead Statement for Srinivaspura Dumping Yard for Ward No. 09, Vidyaranyapura Sub Division.

Lead Distance

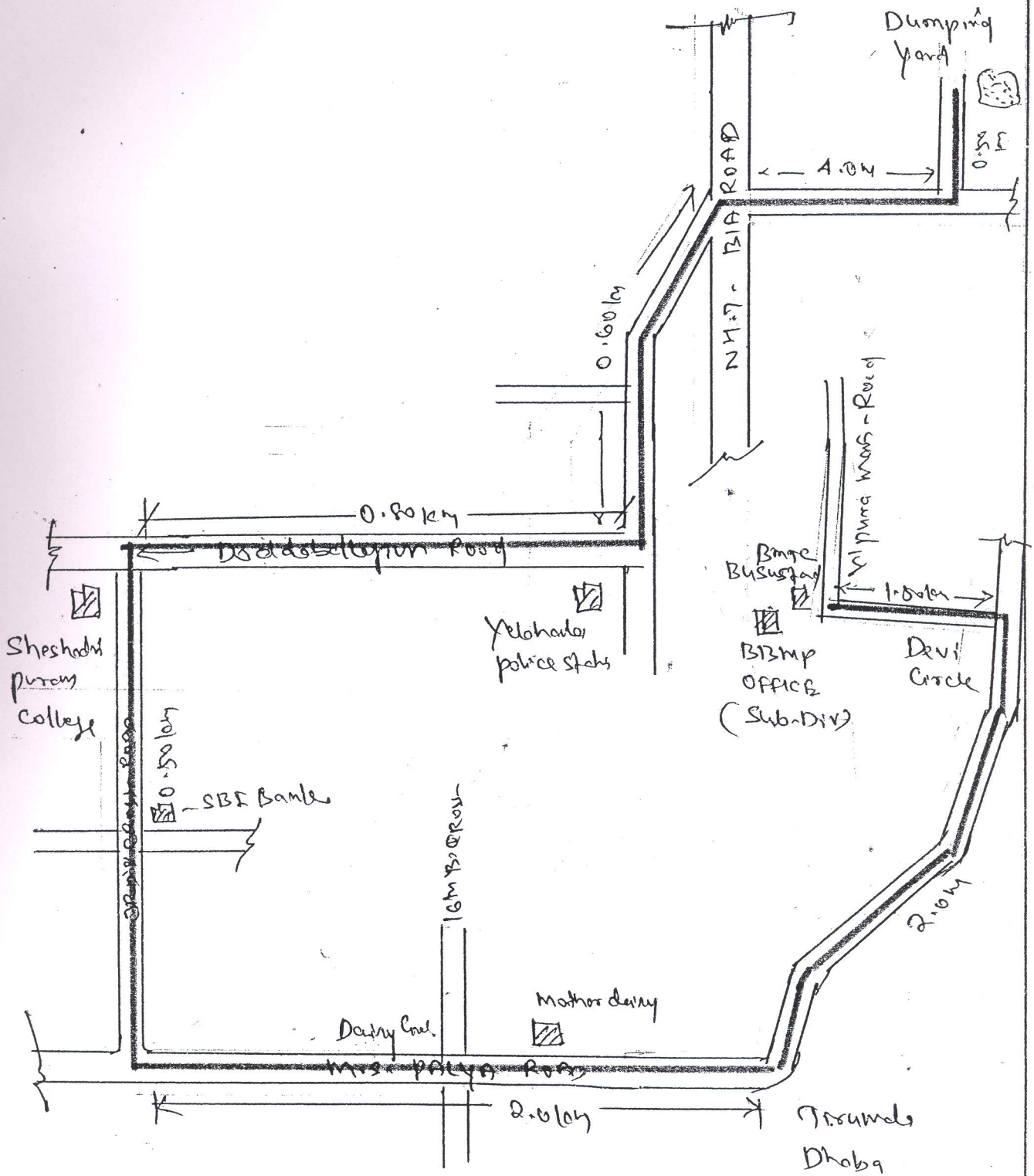
1.	From BBMP Sub Division office to Devi Circle	1.50 Kms
2.	From Devi Circle to Thirumala Daba	2.00 Kms
3.	From Thirumala Daba to 3rd Cross SBI Bank	2.00 Kms
4.	From 3rd Cross SBI Bank to Sheshadripuram College	0.50 Kms
5.	From Shesadripuram College to Police Station	0.80 Kms
6.	From Police Station to Kogilu Cross	0.60 Kms
7.	From Kogilu Cross to Srinivasapura	4.00 Kms
8.	From Srinivasapura to Dumping Yard	0.50 Kms
	Total	**11.90 Kms**

Certificate:

1. Certified that the Srinivasapura Dumping Yard us the approved dumping yard for ward no. 09 BBMP
2. BBMP Sub Division office Vidyaranyapura is taken as the centre place for calculating the lead distance for ward no. 09.
3. The above distance is the shortest distance for calculating the lead.

Assistant Engineer Ward No. 09	Assistant Executive Engineer Vidyaranyapura Sub Division	Executive Engineer Byatarayanapura Division

LEAD CHART FOR DUMPING YARD FOR WARD NO



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